

### ABSTRACT

Recombinant chimeric molecules that include at least a domain capable of regulating the humoral effector functions of the immune system and another domain capable of regulating the cellular effector functions of the immune system are provided.

- 5 Recombinant DNA constructs having DNA sequences encoding the above mentioned chimeric proteins are provided. Cloning vectors incorporating the above DNA constructs and cells transformed with the vectors and host cells containing such vectors are also provided. Transgenic cells, tissues, organs, and animals incorporating the above-mentioned chimeric molecules are provided.

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